

# STIC Search Report

# STIC Database Lecture

TO: Burton Mullins Location: JEF-9A69

**Art Unit: 2834** 

Friday, November 18, 2005

Case Serial Number: 08/770796

From: Darcy Bates Location: EIC 2800

**JEF-4B68** 

Phone: 571-272-2540

darcy.bates@uspto.gov

# Searcia Noies

Re: 08/770,7964 US 5,811,318

Attached are search results.

No U. S. litigation was found in searches of Lexis-Nexis and Questel-Orbit databases.

If more searching or explanation is needed, please let me know.

Thanks,

**Darcy Bates** 



# **Bates, Darcy**

From:

Mullins, Burton

Sent:

Wednesday, November 16, 2005 9:01 AM STIC-EIC2800

To:

Subject:

Lit Search ASN: 10613064

Hi, I'd like a litigation search for US 5811318. The application is a re-issue. http://expoweb1:8001/cgi-bin/expo/GenInfo/snquery.pl?APPL\_ID=10613064

Thanks, **Burt Mullins** AU2834



# PALM INTRANET

Day: Friday Date: 11/18/2005 Time: 09:17:33

# **Patent Number Information**

Application Number: <u>08/770796</u> Assignments

Filing or 371(c) Date: 12/20/1996

Effective Date: 12/20/1996

Application Received: 12/20/1996

Patent Number: 5811318 Issue Date: 09/22/1998

Date of Abandonment: 00/00/0000

Attorney Docket Number: 1341-1

Status: 150 / PATENTED CASE

Examiner Number: 74721 / SCHILLINGER, LAURA

Group Art Unit: 2813

Class/Subclass: 438/030.000

Lost Case: NO

Interference Number:
Unmatched Petition: NO
L&R Code: Secrecy Code:1

Third Level Review: NO

Secrecy Order: NO

Status Date: 08/17/1998

Confirmation Number: 3936 Oral Hearing: NO

Title of Invention: METHOD FOR MANUFACTURING A LIQUID CRYSTAL DISPLAY

Bar Code	PALM Location	Location Date	Charge to Loc	Charge to Name	Employee Name	Location
08770796	<u>7530</u>	07/24/1998	No Charge to Location	No Charge to Name	LOE CONV DR1995C	

Appln Contents Petition Info At	ty/Agent Info	Continuity Data	Foreign Data	Inventors Addre
Search Another: Application#	Search	or Patent#	Search	
PCT /	Search	or PG PUBS #	Search	]
Attorney Docket #		Search		
Bar Code#	Se	earch		

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Back to PALM | ASSIGNMENT | OASIS | Home page



Day: Friday Date: 11/18/2005 Time: 09:21:22

# **Continuity Information for 08/770796**

Parent Data
No Parent Data

# **Child Data**

<u>09667643</u> is a reissue of <u>08770796</u> <u>10613064</u> is a continuation of <u>09667643</u>

Appln Info Contents Petition Info	Atty/Agent Info Continuity Data	Foreign Data Inventors Address
Search Another: Application#	Search or Patent#	Search
PCT /	Search or PG PUBS #	Search
Attorney Docket #	Search	
Bar Code #	Search	

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# **Welcome Darcy Bates!**

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Patent Search - Number: 5,811,318

No cases containing this patent number were found.

Return to search

(Charges for search still apply)

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Source: Legal > Area of Law - By Topic > Patent Law > Patents > U.S. Patents > Utility Patents

Terms: patno=5811318 (Edit Search | Suggest Terms for My Search)

770796 (08) 5811318 September 22, 1998

# UNITED STATES PATENT AND TRADEMARK OFFICE GRANTED PATENT

# 5811318

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#### Link to Claims Section

September 22, 1998

Method for manufacturing a liquid crystal display

REISSUE: Reissue Application filed Sep. 22, 2000 (O.G. Nov. 7, 2000) Ex. Gp.: 2813; Re. S.N.

09/667,643, (O.G. November 7, 2000)

July 7, 2003 - Reissue Application filed Ex. Gp.: 2813; Re. S.N. 10/613,064 (O.G. November 4, 2003)

INVENTOR: Kweon, Young-chan - Seoul, South Korea (KR)

**APPL-NO:** 770796 (08)

**FILED-DATE:** December 20, 1996

**GRANTED-DATE:** September 22, 1998

PRIORITY: December 28, 1995 - 9562170, South Korea (KR); May 29, 1996 - 9618516, South Korea (KR)

ASSIGNEE-AT-ISSUE: Samsung Electronics Co., Ltd., Suwon, South Korea (KR), 03

ASSIGNEE-AFTER-ISSUE: March 10, 1997 - ASSIGNMENT OF ASSIGNORS INTEREST (SEE DOCUMENT FOR DETAILS)., SAMSUNG ELECTRONICS CO., LTD. 416 MAETAN-DONG, PALDAL-GU, SUWON-CITY KYUNGKI-DO KOREA, REPUBLIC OF, Reel and Frame Number: 08410/0751

**LEGAL-REP:** Jones & Volentine, LP.

PUB-TYPE: September 22, 1998 - Utility Patent having no previously published pre-grant publication (A)

**PUB-COUNTRY:** United States (US)

**US-MAIN-CL:** 438#30

**US-ADDL-CL:** 257#59, 257#E21.414, 257#E21.703, 257#E27.111, 257#E29.151, 349#152, 438#158

**CL:** 438, 257, 349, 438

**SEARCH-FLD:** 438#30, 438#158, 438#159, 438#160, 438#592, 438#182, 438#200, 257#59, 257#72,

349#46, 349#139, 349#152, 349#149

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Note: Segment availability differs between sources. Segments may not be applied consistently across sources.  Restrict by Date:  No Date Restrictions From  Date Formats	<i>%</i>	w/p in same paragraph not w/p not in same paragraph w/seg in same segment not w/seg not in same segment in same sentence not w/s not in same sentence and not View Search Comman

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Query/Command : file pluspat

Selected file: PLUSPAT

Search statement 1

Query/Command: us5811318/pn

\*\* SS 1: Results 1

Search statement

#### Query/Command : prt fu legalall max

1 / 1 PLUSPAT - @QUESTEL-ORBIT - image

US5811318 A 19980922 [US5811318] PN -

ΤI (A) Method for manufacturing a liquid crystal display

PA -(A) SAMSUNG ELECTRONICS CO LTD (KR)

PA0 -Samsung Electronics Company, Ltd., Suwon [KR]

(A) KWEON YOUNG-CHAN (KR) IN -

US77079696 19961220 [1996US-0770796] AP -

KR9562170 19951228 [1995KR-0062170] PR -

KR9618516 19960529 [1996KR-0018516]

(A) H01L-021/84 IC -

G02F-001/1345

G02F-001/1362

H01L-021/336D2C

H01L-021/84

H01L-027/12

H01L-029/49B

ICO -S02F-001/1362

S02F-001/1362P

PCL -ORIGINAL (O): 438030000; CROSS-REFERENCE (X): 257E21414 257E21703 257E27111 257E29151 257059000 349152000 438158000

DT -Corresponding document

US5075244; US5177577; US5187604; US5359206; US5555112; US5668379; CTJP5-152573; JP6-188419

STG -(A) United States patent

A method for manufacturing a liquid crystal display which reduces the number of photolithography processes is provided. The method includes the steps of forming a gate electrode and a gate pad by depositing a first metal film and a second metal film on a substrate of a TFT area and a gate-pad connecting area, respectively, in the described order, by a first photolithography process, forming an insulating film on the entire surface of the substrate on which the gate electrode and the gate pad are formed, forming a semiconductor film pattern on the insulating film of the TFT area by a second photolithography process, forming a source electrode/drain electrode and pad electrode composed of a third metal film using a third photolithography process in the TFT portion and pad portion, respectively, forming a passivation film pattern which exposes a portion of the drain electrode, a portion of the gate pad, and a portion of the pad electrode by a fourth photolithography process, exposing the first metal film by etching the second metal film which constitutes the gate pad using the passivation film pattern as a mask, and forming a pixel electrode

connected to the drain electrode of the TFT area for connecting the gate pad of the gate-pad connecting area to the pad electrode of the pad area using a fifth photolithography process. Therefore, it is possible to reduce the number of photolithography processes, to improve the manufacturing yield, and to suppress growth of a hillock of an Al film.

1 / 1 LGST - @EPO (

PN - US5811318 A 19980922 [US5811318]

AP - US77079696 19961220 [1996US-0770796]

ACT - 19970310 US/AS02-A

ASSIGNMENT OF ASSIGNOR'S INTEREST

OWNER: SAMSUNG ELECTRONICS CO., LTD. 416 MAETAN-DONG, PAL;

EFFECTIVE DATE: 19970214

19970310 US/AS02-A

ASSIGNMENT OF ASSIGNOR'S INTEREST

OWNER: KWEON, YOUNG-CHAN; EFFECTIVE DATE: 19970214

20001107 US/RF-A

REISSUE APPLICATION FILED

EFFECTIVE DATE: 20000922

20031104 US/RF-A

REISSUE APPLICATION FILED

EFFECTIVE DATE: 20030707

UP - 2003-46

1 / 1 CRXX - @CLAIMS/RRX

**AN** - 3043614

PN - 5,811,318 A 19980922 [US5811318]

PA - Samsung Electronics Co Ltd KR

PT - C (Chemical)

ACT - 20000922 REISSUE REQUESTED

ISSUE DATE OF O.G.: 20001107

REISSUE REQUEST NUMBER: 09/667643

EXAMINATION GROUP RESPONSIBLE FOR REISSUEPROCESS: 2813

Reissue Patent Number:

20030707 REISSUE REQUESTED ISSUE DATE OF O.G.: 20031104

REISSUE REQUEST NUMBER: 10/613064

EXAMINATION GROUP RESPONSIBLE FOR REISSUEPROCESS: 2813

Reissue Patent Number:

UP - 2000-45

UACT- 2003-11-04

Search statement 2

Query/Command: fam us5811318/pn

1 Patent Groups
\*\* SS 2: Results 8
Search statement 3

1 / 8 PLUSPAT - @OUESTEL-ORBIT

Query/Command : famstate nonstop

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PN - DE69633378 D1 20041021 [DE69633378]
STG - (D1) Granted EP number in bulletin
OTI - (D1) Verfahren zur Herstellung einer
Flüssigkristallanzeigevorrichtung
PA - (D1) SAMSUNG ELECTRONICS CO LTD (KR)
IN - (D1) KWEON YOUNG-CHAN (KR)
IC - (D1) G02F-001/1345 G02F-001/136
IC - (D1) G02F-001/1345 G02F-001/136

PN2 - DE69633378 T2 20050922 [DE69633378]

STG2- (T2) Trans. Of EP patent

OTI2- (T2) Verfahren zur Herstellung einer
Flüssigkristallanzeigevorrichtung
PA2 - (T2) SAMSUNG ELECTRONICS CO LTD (KR)
IN2 - (T2) KWEON YOUNG-CHAN (KR)
IC2 - (T2) G02F-001/1345 G02F-001/136
AP - DE69633378 19961210 [1996DE-6033378]
PR - KR9562170 19951228 [1995KR-0062170]
        KR9618516 19960529 [1996KR-0018516]
UP - 2004-43
DE69633378 D1 20041021 [DE69633378]DE69633378 T2 20050922
[DE69633378]
AP - DE69633378 19961210 [1996DE-6033378]
         20051027 DE/8364-A [+]
ACTE-
         NO OPPOSITION DURING TERM OF OPPOSITION
UP - 2005-43
2 / 8 PLUSPAT - @QUESTEL-ORBIT
PN - EP0782040 A2 19970702 [EP-782040]
STG -
       (A2) Pub. Of applic. Without search report
TI -
        (A2) Method of manufacturing a liquid crystal display
        (A2) Verfahren zur Herstellung einer
Flüssigkristallanzeigevorrichtung
         (A2) Procédé de fabrication d'un dispositif d'affichage à cristaux
         liquides
PA -
         (A2) SAMSUNG ELECTRONICS CO LTD (KR)
        (A2) KWEON YOUNG-CHAN (KR)
IN -
IC - (A2) G02F-001/1345 G02F-001/136
PN2 - EP0782040 A3 19980715 [EP-782040]
STG2- (A3) Publi. Of search report
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(A3) Method for manufacturing liquid crystal display
      (A3) Verfahren zur Herstellung einer
Flussigkristallanzeigevorrichtung
        (A3) Procédé de fabrication d'un dispositif d'affichage à cristal
       (A3) SAMSUNG ELECTRONICS CO LTD (KR)
PA2 -
IN2 -
       (A3) KWEON YOUNG-CHAN (KR)
IC2 -
       (A3) G02F-001/1345 G02F-001/136
PN3 -
       EP0782040 B1 20040915 [EP-782040]
STG3-
       (B1) Patent
TI3 -
        (B1) Method of manufacturing a liquid crystal display
OTI3-
       (B1) Verfahren zur Herstellung einer
Flüssigkristallanzeigevorrichtung
        (B1) Procédé de fabrication d'un dispositif d'affichage à cristaux
        liquides
       (B1) SAMSUNG ELECTRONICS CO LTD (KR)
PA3 -
IN3 -
       (B1) KWEON YOUNG-CHAN (KR)
       (B1) G02F-001/1345 G02F-001/136
LA -
        ENGLISH (ENG)
AP -
       EP96308925 19961210 [1996EP-0308925]
PR - KR9562170 19951228 [1995KR-0062170]
       KR9618516 19960529 [1996KR-0018516]
EC -
       G02F-001/1345
        G02F-001/1362
        H01L-021/336D2C
       H01L-021/84
       H01L-027/12
       H01L-029/49B
TCO -
      S02F-001/1362
        S02F-001/1362P
DS - DE FR GB
DT - Basic
1 / 1
       LEGALI - ©EPO
       EP0782040 A2 19970702 [EP-782040]EP0782040 A3 19980715
       [EP-782040]EP0782040 B1 20040915 [EP-782040]
        EP96308925 19961210 [1996EP-0308925]
AP -
ACTE-
        19970702 EP/AK-A [+]
        DESIGNATED CONTRACTING STATES:
        DE FR GB
        19980715 EP/AK-A [+]
        DESIGNATED CONTRACTING STATES:
        DE FR GB
        19990303 EP/17P-A [+]
        REQUEST FOR EXAMINATION FILED
        EFFECTIVE DATE: 19981222
        20021204 EP/17Q-A [+]
        FIRST EXAMINATION REPORT
        EFFECTIVE DATE: 20021021
        20040331 EP/RTI1-A
        TITLE (CORRECTION)
        METHOD OF MANUFACTURING A LIQUID CRYSTAL DISPLAY
        20040915 EP/AK-A [+]
        DESIGNATED CONTRACTING STATES:
        DE FR GB
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20040915 EP/REG-A; GB/FG4D [+]
        GB: EUROPEAN PATENT GRANTED
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        20041021 EP/REF-A
        CORRESPONDS TO:
        (DE 69633378 20041021 [DE69633378])
        20050729 EP/ET-A [+]
        FR: TRANSLATION FILED
        20050907 EP/26N-A [+]
        NO OPPOSITION FILED
        EFFECTIVE DATE: 20050616
UP -
        2005-36
3 / 8
      PLUSPAT - @QUESTEL-ORBIT - image
PN - EP1380880 A1 20040114 [EP1380880]
STG - (A1) Public. Of applic. With search report
TI - (A1) Method for manufacturing liquid crystal display
OTI - (A1) Verfahren zur Herstellung von
Flüssigkristallanzeigevorrichtungen
        (A1) Procédé de fabrication d'un dispositif d'affichage à cristaux
        liquides
PA -
       (A1) SAMSUNG ELECTRONICS CO LTD (KR)
PA0 -
       SAMSUNG ELECTRONICS CO., LTD.; 416, Maetan-dong, Paldal-gu;
        Suwon-City, Kyungki-do (KR)
IN -
       (A1) KWEON YOUNG-CHAN (KR)
IC -
        (A1) G02F-001/1362
LA -
       ENGLISH (ENG)
AP -
       EP03010222 19961210 [2003EP-0010222]
       EP96308925 19961210 [1996EP-0308925]
PR -
       KR9562170 19951228 [1995KR-0062170]
       KR9618516 19960529 [1996KR-0018516]
       G02F-001/1362
       H01L-021/336D2C
        H01L-021/84
       H01L-027/12
       H01L-029/49B
DS -
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       2004-03
1 / 1
       LEGALI - ©EPO
PN -
       EP1380880 A1 20040114 [EP1380880]
AP -
       EP03010222 19961210 [2003EP-0010222]
ACTE-
       20040114 EP/AC-A
        DIVISIONAL APPLICATION (ART. 76) OF:
        (EP 0782040 )
        20040114 EP/AK-A [+]
        DESIGNATED CONTRACTING STATES:
        DE FR GB
        20040728 EP/17P-A [+]
        REQUEST FOR EXAMINATION FILED
        EFFECTIVE DATE: 20040526
        20041006 EP/AKX-A [+]
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PAYMENT OF DESIGNATION FEES DE FR GB

20050323 EP/17Q-A FIRST EXAMINATION REPORT EFFECTIVE DATE: 20040930

UP - 2005-12

4 / 8 PLUSPAT - ©QUESTEL-ORBIT - image

PN - JP2004157555 A 20040603 [JP2004157555]

STG - (A) Doc. Laid open to publ. Inspec.

TI - (A) METHOD FOR MANUFACTURING LIQUID CRYSTAL DISPLAY AND THIN FILM TRANSISTOR SUBSTRATE

PA - (A) SAMSUNG ELECTRONICS CO LTD

IN - (A) KWEON YEONG-CHAN

IC - (A) G02F-001/1345 G02F-001/1368 H01L-021/28

H01L-021/3205 H01L-021/336 H01L-021/768 H01L-029/423 H01L-029/49
H01L-029/786

PD - IB2004000532 20040105 [2004IB-0000532]

AP - JP2004000532 20040105 [2004JP-0000532] PR - KR9562170 19951228 [1995KR-0062170] KR9618516 19960529 [1996KR-0018516]

UP - 2004-34

5 / 8 PLUSPAT - ©QUESTEL-ORBIT - image
PN - JP9189924 A 19970722 [JP09189924]
STG - (A) Doc. Laid open to publ. Inspec.
TI - (A) MANUFACTURE OF LIQUID CRYSTAL DISPLAY DEVICE
PA - (A) SAM SUNG ELECTRONIC

PAO - (A) SAMSUNG ELECTRONIC

PAO - (A) SAMSUNG ELECTRON CO LTD

IN - (A) KEN NEISAN INO - (A) KEN NEISAN

IC - (A) G02F-001/1333 G02F-001/1343 G02F-001/136 H01L-029/786

AP - JP31462096 19961126 [1996JP-0314620] PR - KR9562170 19951228 [1995KR-0062170] KR9618516 19960529 [1996KR-0018516]

6 / 8 PLUSPAT - @QUESTEL-ORBIT

PN - KR190041 B1 19990601 [KR-190041]

STG - (B1) Examined pat. App. (2nd pub.) B5

TI - (B1) METHOD OF FABRICATING LIQUID CRYSTAL DISPLAY DEVICE

PA - (B1) SAMSUNG ELECTRONICS CO LTD (KR)

IN - (B1) KWEON YEONG-CHAN (KR)

IC - (B1) G02F-001/136

**AP** - KR9618516 19960529 [1996KR-0018516] **PR** - KR9562170 19951228 [1995KR-0062170]

UP - 2000-13

7 / 8 PLUSPAT - ©QUESTEL-ORBIT

PN - TW387998 B 20000421 [TW-387998]

STG - (B) Patent

TI - (B) Method for manufacturing liquid crystal display

PA - (B) SAMSUNG ELECTRONICS CO LTD (KR)

IN - (B) KWEON YOUNG-CHAN (KR)

IC - (B) G02F-001/133

AP - TW85114772 19961129 [1996TW-0114772]

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KR9562170 19951228 [1995KR-0062170]
        KR9618516 19960529 [1996KR-0018516]
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        2001-06
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       LEGALI - ©EPO
PN -
       TW387998 B 20000421 [TW-387998]
       TW85114772 19961129 [1996TW-0114772]
20000905 TW/GD4A-A [+]
AP -
ACTE-
        ISSUE OF PATENT CERTIFICATE FOR GRANTED INVENTION PATENT
UP -
        2004-26
      PLUSPAT - @QUESTEL-ORBIT - image
8 / 8
PN - US5811318 A 19980922 [US5811318]
STG - (A) United States patent
TI -
       (A) Method for manufacturing a liquid crystal display
PA -
       (A) SAMSUNG ELECTRONICS CO LTD (KR)
PA0 -
       Samsung Electronics Company, Ltd., Suwon [KR]
IN -
       (A) KWEON YOUNG-CHAN (KR)
       (A) H01L-021/84
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       KR9562170 19951228 [1995KR-0062170]
KR9618516 19960529 [1996KR-0018516]
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EC - G02F-001/1345
       G02F-001/1362
       H01L-021/336D2C
       H01L-021/84
       H01L-027/12
       H01L-029/49B
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       S02F-001/1362
        S02F-001/1362P
PCL - ORIGINAL (O): 438030000; CROSS-REFERENCE (X): 257E21414
        257E21703 257E27111 257E29151 257059000 349152000 438158000
DT - Corresponding document
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       US5811318 A 19980922 [US5811318]
AP -
       US77079696 19961220 [1996US-0770796]
ACTE-
       19970310 US/AS02-A
       ASSIGNMENT OF ASSIGNOR'S INTEREST
        OWNER: SAMSUNG ELECTRONICS CO., LTD. 416 MAETAN-DONG, PAL;
        EFFECTIVE DATE: 19970214
        19970310 US/AS02-A
        ASSIGNMENT OF ASSIGNOR'S INTEREST
        OWNER: KWEON, YOUNG-CHAN; EFFECTIVE DATE: 19970214
        20001107 US/RF-A
        REISSUE APPLICATION FILED
        EFFECTIVE DATE: 20000922
        20031104 US/RF-A
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REISSUE APPLICATION FILED EFFECTIVE DATE: 20030707

UP -

2003-46



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Note: Segment availability differs between sources. Segments may not be  Restrict by Date:  No Date Restrictions From To	be applied consistently across sources.  Date Formats	w/seg in same segment not w/seg not in same segmer w/s in same sentence not w/s not in same sentence	not in same paragraph in same segment not in same segment
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- Use a less restrictive date range.

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and not

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*Enter Search Terms	a <sup>r</sup>	<sup>®</sup> Search	Connectors
◆ Terms and Connectors ( Natural Language	Suggest Terms for My Search	between s	ectors to show relationship search terms. (Hover over : for description. Click a to add to search.)
Restrict by Segment: Select a segment, enter search terms for the segment, then cli	Check Spelling	and or w/N	Definition and or within N words
Select a Segment  Note: Segment availability differs between sources. Segments may not	ot be applied consistently across sources.	w/p in same paragrap not w/p not in same paragrap	precedes by N words in same paragraph not in same paragraph in same segment

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